

## **SECTION 204 -- TEMPORARY WATER POLLUTION CONTROL**

### **204.01 -- Description**

1. This Section defines some temporary measures and construction practices the Contractor shall use to prevent soil erosion and avoid water pollution.

2. The Contractor shall exercise every reasonable precaution throughout the life of the contract to prevent silting of rivers, streams, impoundments (lakes, reservoirs, etc.), the project site, and adjacent property. Construction of drainage facilities, as well as performance of other contract work which will contribute to the control of siltation, shall be carried out in conjunction with earthwork operations or as soon thereafter as is practicable.

3. a. The Contractor shall take sufficient precautions to prevent pollution of streams, lakes, reservoirs, the project site, and adjacent property with petroleum products, chemicals, or other harmful materials.

b. The Contractor shall conduct and schedule the operations so as to avoid interference with movement of migratory fish.

c. The Contractor shall comply with all applicable statutes relating to pollution of streams and fish and game regulations.

4. All construction debris shall be disposed in a manner that it cannot enter any waterway. Waste excavation from the roadway, channel changes, cofferdams, etc., shall not be deposited in or so near to rivers, streams, or impoundments that it will be washed away by high water or runoff.

5. The Contractor's erosion control measures shall be continued until the permanent drainage facilities have been constructed and the grass on seeded slopes is sufficiently established to be an effective erosion deterrent or until tentative acceptance of the work.

6. All erosion control measures shall be properly maintained by the Contractor.

7. All erosion resulting from the Contractor's operations and the elements must be corrected by the Contractor at no additional cost to the Department.

8. The Contractor shall explain his/her erosion control plans at the preconstruction conference.

### **204.02 -- Limitation of Operations**

1. The maximum exposed surface area for the Contractor's operations in excavation, borrow, and embankment is 18 acres (72,800 m<sup>2</sup>) plus an equal area of clearing and grubbing/large tree removal. A written request for an increase in the maximum exposed surface area may be approved by the Engineer. This approval will be based on the soil, moisture, seasonal conditions, the Contractor's operation, or other conditions.

2. a. The Engineer shall have the authority to reduce the maximum exposed surface area when any of the following conditions warrant:

(1) Soil and moisture conditions are such that erosion is probable.

(2) Seasonal conditions may force extended delays.

(3) Proximity to lakes, streams, ponds, or other watercourses require more stringent controls.

(4) Equipment available on the job is not sufficient to properly handle areas that are opened.

(5) Any other environmental condition in the area exists which would be affected by erosion from the project.

b. The Contractor shall immediately provide permanent or temporary erosion control measures as outlined when any of these above conditions exist.

3. Construction operations in rivers, streams, and impoundments shall be restricted to those areas where channel changes are shown in the plans and to those areas which must be entered for the construction of temporary or permanent structures or embankments, unless the Engineer issues a written approval of deviation. Rivers, streams, and impoundments shall be promptly cleared of all falsework, piling, debris, or other obstructions placed therein or caused by the construction operations.

4. Frequent fording of live streams with construction equipment will not be allowed; therefore, temporary bridges or other structures shall be used wherever an appreciable number of stream crossings are necessary. Unless otherwise approved in writing by the Engineer, mechanized equipment shall not be operated in live streams except as may be required to construct channel changes and temporary or permanent structures.

#### **204.03 -- Construction Methods**

1. a. The Contractor shall conduct all construction activities so as to avoid soil erosion.

b. Each day, slopes shall be graded so that storm runoff will not erode soil.

c. Diversion ditches shall be cut to direct the runoff flow.

2. The Contractor shall incorporate all permanent erosion control features, including cover crop seeding, into the project at the earliest practicable time as outlined in his/her schedule. "Temporary Water Pollution Control" will be used to correct the following:

a. Conditions that develop during construction that were not foreseen during the design stage.

b. Conditions that exist before installation of permanent pollution control features.

c. Temporary erosion control problems that develop during construction but are not associated with permanent control features on the project.

3. "Temporary Water Pollution Control" shall consist of excavation, hauling, placement, and finishing procedures that will control soil erosion and water pollution. It excludes berms, dikes, dams, sediment basins, temporary slope drains, mulching, cover crop seeding, silt fences, lined hay-bale diversion ditches, slope stabilization mats, and other erosion control structures shown on the plans which shall be separate pay items.

4. Necessary construction work outside the right-of-way, such as borrow pit operations, haul roads, plant sites, and equipment storage sites, may include temporary pollution control. All pollution control requirements outside the right-of-way are subsidiary to the item being constructed.

5. a. The temporary pollution control procedures contained herein shall be coordinated with any permanent erosion control structure or direct payment item specified elsewhere in the contract to the extent practical to assure economical, effective, and continuous erosion control throughout the construction period.

b. The Contractor shall be responsible for evaluating the construction site and determining the need for and installing additional permanent erosion control structures not shown in the plans (such as sediment traps, silt fence, ditch checks, etc.).

6. Cover crop seeding shall consist of furnishing and applying the appropriate cover crop seed as prescribed in Section 812. Where slope protection is required, it shall be placed instead of cover crop seeding. The cover crop shall be seeded over the entire disturbed area of each portion of the project which has been finish graded, excluding the actual roadbed. The Engineer may designate other areas of the project to be cover crop seeded.

7. a. The Contractor shall also provide such measures, including dikes and berms, to limit erosion and siltation into streams, rivers, or other impoundments during the construction period, as well as during the times that work may be suspended. When such measures fail to provide adequate protection from erosion, the Contractor shall provide temporary slope drains to carry excess runoff from the fills in the vicinity of streams, rivers, or other impoundments.

b. Temporary slope drains may be constructed of pipe, fiber mats, rubble, concrete or asphaltic concrete, plastic sheets, or other materials acceptable to the Engineer for erosion control.

#### **204.04 -- Method of Measurement**

Measurements will not be made for "Temporary Water Pollution Control".

#### **204.05 -- Basis of Payment**

1. "Temporary Water Pollution Control" is subsidiary to the item being constructed.

2. The work identified in Subsection 204.03, Paragraph 5.b., shall be paid for either at contract unit prices or as "extra work", provided that the Engineer is notified and approves each item in writing prior to the work being performed.